

1090ES-WP19-07

**Extended Squitter
ICAO Documentation Restructuring**

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Topics

- **Traditional ICAO Documentation Approach**
- **Current Approach to ICAO Documentation**
- **SCRSP/1 Results**
- **Restructuring Plan**
- **Restructuring Status and Schedule**



Traditional ICAO Documentation Approach

- **Standards and Recommended Practices (SARPs)**
 - Minimum requirements to ensure interoperability
 - No test procedures
 - Changes require approval of ICAO contracting States
 - Published simultaneously in all ICAO official languages
- **Guidance Material**
 - Explanation of SARPs requirements
 - Advice on implementation
 - Published in the form of an ICAO Document
 - Can be revised by the authority of the ICAO Secretariat
 - Can be published in a single language



Current Approach to ICAO Documentation

- **SARPs reduced to “core” requirements**
 - Short summary of key system requirements
 - Not sufficient to ensure interoperability
- **Detailed requirements contained in a Technical Manual**
 - Presently has same authority as any ICAO “DOC”
 - Only needs to be in one language
 - Can be revised under authority of the ICAO Secretariat
 - Makes it easier to make changes as the system evolves
 - Does not have the legal status of SARPs
- **Reasons for new approach**
 - New systems much more complex
 - May require many hundreds of pages of SARPs material
 - New systems evolve over time, requiring frequent SARPs updates
- **Guidance Material approach is unchanged**



SCRSP/1 Results

- **Background**
 - Panel had developed a Technical Manual (TM) to present at the previous panel meeting (SICASP/7, Sep 2000) but was advised to convert manual to SARPs since a TM had no official ICAO status (Still true)
 - Panel advised again to propose SARPs changes for SCRSP/1 (Nov 2004) since all 1090ES and register format material was already in SARPs
- **Result of review by Air Navigation Commission (ANC)**
 - Panel was directed to convert 1090ES and register SARPs into a core SARPs and a Technical Manual



Restructuring Plan

- **Current location of ES and register SARPs**
 - Transponder features to support ES contained in Annex 10, Vol IV, Chapter 3 (DO-181C)
 - ES and register format and protocol requirements contained in Annex 10, Vol III, Part 1, Chapter 5
 - DO-260 requirements contained in Appendix 1 to Chapter 5
 - DO-260A requirements originally intended to be put in a new Appendix 2
- **Restructuring approach**
 - Current Appendix 1 and new Appendix to be moved to a new Technical Manual (Doc NNNN)
 - Title “Technical Provisions for Mode S Services and Extended Squitter”
 - Transponders features and ES receiver core SARPs to stay in Vol IV



Restructuring Status and Schedule

- **SARPS change for Vol IV now complete and submitted to ICAO Secretariat**
 - Will be used to prepare proposals to the ANC
 - ANC meeting scheduled for Feb 2006
- **Draft of Technical Manual (DOC NNNN) now available**
 - Initial review completed by the Technical Subgroup (TSG)
 - This version will be exhibited to the ANC as work in progress in connection with presentation of the SARPs revision
 - Final review of DOC NNNN will take place at TSG meeting in Feb 2006
 - Document will then be submitted to WG-B for approval at Montreal meeting, May 2006
 - After WG-B approval, it will be submitted to the ICAO secretariat for publication